

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Use as many sheets as necessary)</i>		<i>Complete if Known</i>		
		Application Number	10/033,141	
		Filing Date	2001-10-24	
		First Named Inventor	Leung, Nikolai K.N et al.	
		Art Unit	2461	
		Examiner Name	MATTIS, JASON E	
Sheet	1	of	12	Attorney Docket No: 010438B1

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2(f) known</sup>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/JM/	001	US4163255	07-31-1979	Pires; H. George et al.	
	002	US4750167	06-07-1988	Meyer; Charles S. et al.	
	003	US4870408	09-26-1989	Zdunek; Kenneth J. et al.	
	004	US4901307	02-13-1990	Gilhousen et al.	
	005	US5103459	04-07-1992	Gilhousen et al.	
	006	US5136586	08-04-1992	Greenblatt; Richard D. et al.	
	007	US5159447	10-27-1992	Haskell; Barin G. et al.	
	008	US5325357	06-28-1994	Kimoto; Atsushi et al.	
	009	US5351087	09-27-1994	Christopher; Todd J. et al.	
	010	US5363379	11-08-1994	Eckenrode; Thomas et al.	
	011	US5369784	11-29-1994	Nelson et al.	
	012	US5371794	12-06-1994	Diffie; Whitfield et al.	
	013	US5412655	05-02-1995	Yamada; Kenji et al.	
	014	US5504773	04-02-1996	Padovani et al.	
	015	US5513245	04-30-1996	Mizikovsky; Semyon et al.	
	016	US5515441	05-07-1996	Faucher et al.	
	017	US5686963	11-11-1997	Uz; K. Metin et al.	
	018	US5751725	05-12-1998	Chen et al.	
	019	US5758291	05-26-1998	Grube et al.	
	020	US5774496	06-30-1998	Butler et al.	
/JM/	021	US5778187	07-07-1998	Monteiro; Antonio M. et al.	

EXAMINER SIGNATURE /Jason Mattis/

DATE CONSIDERED 04/14/2010

\*EXAMINER Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST 3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO		<i>Complete if Known</i>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		<b>Application Number</b>	10/033,141
		<b>Filing Date</b>	2001-10-24
		<b>First Named Inventor</b>	Leung, Nikolai K.N et al.
		<b>Art Unit</b>	2461
		<b>Examiner Name</b>	MATTIS, JASON E
<b>Sheet</b>	<b>2</b>	<b>of</b>	<b>12</b>
<b>Attorney Docket No:</b> 010438B1			

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/JM/	022	US5850444	12-15-1998	Rune et al.	
	023	US5946316	08-31-1999	Chen; Xiaoqiang et al.	
	024	US5970072	10-19-1999	Gammenthaler, Jr.; Robert Scott et al.	
	025	US6021124	02-01-2000	Haartsen; Jacobus C. et al.	
	026	US6047395	04-04-2000	Zook; Christopher P. et al.	
	027	US6052812	04-18-2000	Chen; Zongbo et al.	
	028	US6055314	04-25-2000	Spies et al.	
	029	US6097817	08-01-2000	Bligic et al.	
	030	US6148010	11-14-2000	Sutton et al.	
	031	US6185430	02-06-2001	Yee; David Moon et al.	
	032	US6240091	05-29-2001	Ginzboorg; Philip et al.	
	033	US6253069	06-26-2001	Mankovitz; Roy J. et al.	
	034	US6363480	03-26-2002	Perlman et al.	
	035	US6373829	04-16-2002	Vilmur; Richard Joseph et al.	
	036	US6385200	05-07-2002	Erami; Akihisa et al.	
	037	US6385461	05-07-2002	Raith; Alex Krister et al.	
	038	US6424717	07-23-2002	Pinder et al.	
	039	US6449491	09-10-2002	Dailey; Timothy E. et al.	
↓	040	US6477377	11-05-2002	Backstrom; Olof Tomas et al.	
/JM/	041	US6490259	12-03-2002	Agrawal; Prathima et al.	

EXAMINER SIGNATURE /Jason Mattis/

DATE CONSIDERED 04/14/2010

\*EXAMINER Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds of Documents of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST 3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO		<i>Complete if Known</i>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		<b>Application Number</b>	10/033,141
		<b>Filing Date</b>	2001-10-24
		<b>First Named Inventor</b>	Leung, Nikolai K.N et al.
		<b>Art Unit</b>	2461
		<b>Examiner Name</b>	MATTIS, JASON E
<b>Sheet</b>	<b>3</b>	<b>of</b>	<b>12</b>
		<b>Attorney Docket No:</b> 010438B1	

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/JM/	042	US6560206	05-06-2003	Naden; James M et al.	
	043	US6564211	05-13-2003	Andreev; Alexander E. et al.	
	044	US6574211	06-03-2003	Padovani et al.	
	045	US6598203	07-22-2003	Tang; Benjamin et al.	
	046	US6600745	07-29-2003	Chopping; Geoffrey et al.	
	047	US6601068	07-29-2003	Park et al.	
	048	US6606706	08-12-2003	Li; Yunzhou et al.	
	049	US6647000	11-11-2003	Persson; Bengt et al.	
	050	US6680920	01-20-2004	Wan; Yongbing et al.	
	051	US6704368	03-09-2004	Nefedov; Nikolai et al.	
	052	US6704369	03-09-2004	Kawasaki; Naoto et al.	
	053	US6725459	04-20-2004	Bacon; Kinney C. et al.	
	054	US6735177	05-11-2004	Suzuki; Mitsutaka et al.	
	055	US6751218	06-15-2004	Haghirahim; Hassan et al.	
	056	US6766024	07-20-2004	Rix et al.	
	057	US6781999	08-24-2004	Eyuboglu; M. Vedat et al.	
	058	US6788681	09-07-2004	Hurren; Alan J. et al.	
	059	US6798791	09-28-2004	Riazi; Habib et al.	
	060	US6801508	10-05-2004	Lim; Byung Keun et al.	
	061	US6870923	03-22-2005	Yi et al.	
/JM/	062	US6879573	04-12-2005	Huo; David D. et al.	

EXAMINER SIGNATURE /Jason Mattis/

DATE CONSIDERED 04/14/2010

\*EXAMINER Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. \* Applicant's unique citation designation number (optional).  
 See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. \* Enter Office that issued the document, by the two-letter code (WIPO Standard ST 3).  
 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. \* Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST 16 if possible. \* Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.  
 If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Use as many sheets as necessary)</i>		<i>Complete if Known</i>		
		<b>Application Number</b>	10/033,141	
		<b>Filing Date</b>	2001-10-24	
		<b>First Named Inventor</b>	Leung, Nikolai K.N et al.	
		<b>Art Unit</b>	2461	
		<b>Examiner Name</b>	MATTIS, JASON E	
<b>Sheet</b>	4	<b>of</b>	12	<b>Attorney Docket No:</b> 010438B1

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/JM/	063	US6879690	04-12-2005	Faccin; Stefano et al.	
	064	US6882850	04-19-2005	McConnell et al.	
	065	US6885874	04-26-2005	Grube; Gary W. et al.	
	066	US6895216	05-17-2005	Sato; Hijin et al.	
	067	US6898285	05-24-2005	Hutchings et al.	
	068	US6918035	07-12-2005	Patel; Sarvar et al.	
	069	US6925285	08-02-2005	Kim; Jae-Geun et al.	
	070	US7016351	03-21-2006	Farinacci; Dino et al.	
	071	US7036023	04-25-2006	Fries; Robert M. et al.	
	072	US7039180	05-02-2006	Issaa; Michael A. et al.	
	073	US7046672	05-16-2006	Liao; HongBin et al.	
	074	US7058809	06-06-2006	White; Mark Andrew George et al.	
	075	US7072865	07-04-2006	Akiyama; Koichiro et al.	
	076	US7079502	07-18-2006	Yamano; Shigeki et al.	
	077	US7114175	09-26-2006	Lahteenmaki; Markku et al.	
	078	US7200230	04-03-2007	Knauf; Christopher L. et al.	
	079	US7209459	04-24-2007	Kangas; Antti et al.	
	080	US7215775	05-08-2007	Noguchi; Tetsuya et al.	
	081	US7239704	07-03-2007	Maillard et al.	
	082	US7278164	10-02-2007	Raiz; Leonid et al.	
/JM/	083	US7280660	10-09-2007	Salo; Juha et al.	

EXAMINER SIGNATURE /Jason Mattis/

DATE CONSIDERED 04/14/2010

\*EXAMINER Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST 3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO		<i>Complete if Known</i>		
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		<b>Application Number</b>	10/033,141	
		<b>Filing Date</b>	2001-10-24	
		<b>First Named Inventor</b>	Leung, Nikolai K.N et al.	
		<b>Art Unit</b>	2461	
		<b>Examiner Name</b>	MATTIS, JASON E	
<b>Sheet</b>	5	of	12	<b>Attorney Docket No:</b> 010438B1

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/JM/	084	US7290063	10-30-2007	Kalliokulju; Juha et al.	
	085	US7376963	05-20-2008	Kato; Taku et al.	
	086	US20050008159	01-13-2005	Grilli, Francesco; et al.	
	087	US20010004761	06-21-2001	Zehavi, Ephraim; et al.	
	088	US20020080887	06-27-2002	Jeong, Young-Ho et al.	
	089	US20020152384	10-17-2002	Shelest, Art et al.	
	090	US20020154781	10-24-2002	Sowa, Hans Christopher et al.	
	091	US20020169724	11-14-2002	Moroney, Paul; et al.	
	092	US20020176408	11-28-2002	Kangas, Antti; et al.	
	093	US20030035389	02-20-2003	Chen, Tao et al.	
	094	US20030039237	02-27-2003	FORSLOW, JAN E et al.	
	095	US20030039361	02-27-2003	Hawkes, Philip Michael et al.	
	096	US20030054807	03-20-2003	Hsu, Liangchi; et al.	
	097	US20030064679	04-03-2003	Kim, Jae Geun; et al.	
	098	US20030070092	04-10-2003	Hawkes, Philip et al.	
	099	US20030072384	04-17-2003	Chen, Tao; et al.	
	100	US20030101401	05-29-2003	Salvi, Rohan S et al.	
	101	US20040005860	01-08-2004	Kato, Taku; et al.	
	102	US20040019787	01-29-2004	Shibata, Norimasa et al.	
/JM/	103	US20040022216	02-05-2004	Shi, Guangming Carl; et al.	

EXAMINER SIGNATURE /Jason Mattis/

DATE CONSIDERED 04/14/2010

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST 3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Use as many sheets as necessary)</i>		<i>Complete if Known</i>		
		Application Number	10/033,141	
		Filing Date	2001-10-24	
		First Named Inventor	Leung, Nikolai K.N et al.	
		Art Unit	2461	
		Examiner Name	MATTIS, JASON E	
Sheet	6	of	12	Attorney Docket No: 010438B1

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/JM/	104	US20040095515	05-20-2004	Tajima, Teruo; et al.	
	105	US20040101138	05-27-2004	Revital, Dan et al.	
	106	US20040131185	07-08-2004	Kakumer, Anil K.; et al.	
	107	US20040132402	07-08-2004	Agashe, Parag A.; et al.	
	108	US20040266391	12-30-2004	Hafren, Jonas; et al.	
	109	US20050048963	03-03-2005	Kubler, Joseph J.; et al.	
	110	US20050055551	03-10-2005	Becker, Claudia; et al.	
	111	US20050108563	05-19-2005	Becker, Claudia; et al.	
	112	US20050144550	06-30-2005	Jeon, Ik Beom; et al.	
/JM/	113	US20070116282	05-24-2007	Hawkes et al.	

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> -Number <sup>3</sup> -Kind Code <sup>3</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/JM/	114	EP0702477A2	03-20-1996	SUN MICROSYSTEMS INC [US] et al.	<input type="checkbox"/>
/JM/	115	EP0748058A2	12-11-1996	AT & T CORP [US] et al.	<input type="checkbox"/>

EXAMINER SIGNATURE /Jason Mattis/

DATE CONSIDERED 04/14/2010

\*EXAMINER Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds of Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST 3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO		<i>Complete if Known</i>		
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		<b>Application Number</b>	10/033,141	
		<b>Filing Date</b>	2001-10-24	
		<b>First Named Inventor</b>	Leung, Nikolai K.N et al.	
		<b>Art Unit</b>	2461	
		<b>Examiner Name</b>	MATTIS, JASON E	
<b>Sheet</b>	7	of	12	<b>Attorney Docket No:</b> 010438B1

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> Number* Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T 6
/JM/	116	EP0813309A2	12-17-1997	LUCENT TECHNOLOGIES INC [US] et al.		<input type="checkbox"/>
	117	EP0854618A2	07-22-1998	LUCENT TECHNOLOGIES INC [US] et al.		<input type="checkbox"/>
	118	EP0924898A1	06-23-1999	INST NAT RECH INF AUTOMAT [FR] et al.		<input type="checkbox"/>
	119	EP0928084A2	07-07-1999	MITSUBISHI ELECTRIC CORP [JP] et al.		<input type="checkbox"/>
	120	EP0951198A2	10-20-1999	NEC CORP [JP] et al.		<input type="checkbox"/>
	121	EP1001570A2	05-17-2000	LUCENT TECHNOLOGIES INC [US] et al.		<input type="checkbox"/>
	122	EP1032150A2	08-30-2000	TRW INC [US] et al.		<input type="checkbox"/>
	123	EP1098446A2	05-09-2001	MITSUBISHI ELECTRIC CORP [JP] et al.		<input type="checkbox"/>
	124	EP1185125A1	03-06-2002	NTT DOCOMO INC [JP] et al.		<input type="checkbox"/>
	125	EP1190526A1	3-27-2002	ERICSSON TELEFON AB L M [SE]		<input type="checkbox"/>
	126	GB2346512A	08-09-2000	NEC CORP [JP] et al.		<input type="checkbox"/>
	127	JP10063598A	03-06-1998	NIPPON TELEGRAPH & amp; TELEPHONE et al.		<input type="checkbox"/>
	128	JP10200536A	07-31-1998	TOSHIBA CORP et al.		<input type="checkbox"/>
	129	JP11313059A	11-09-1999	NIPPON TELEGRAPH & amp; TELEPHONE et al.		<input type="checkbox"/>
	130	JP11355460A	12-24-1999	MEIDENSHA ELECTRIC MFG CO LTD et al.		<input type="checkbox"/>
/JM/	131	JP2000165258A	06-16-2000	YRP IDO TSUSHIN KIBAN GIJUTSU; TOSHIBA CORP et al.		<input type="checkbox"/>

EXAMINER SIGNATURE /Jason Mattis/

DATE CONSIDERED 04/14/2010

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. \* Applicant's unique citation designation number (optional).  
 See Kinds of Documents of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. \* Enter Office that issued the document, by the two-letter code (WIPO Standard ST 3).  
 For Japanese patent documents, the indication of the year of the Emperor must precede the serial number of the patent document. \* Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST 16 if possible. \* Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO		<i>Complete if Known</i>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		<b>Application Number</b>	10/033,141
		<b>Filing Date</b>	2001-10-24
		<b>First Named Inventor</b>	Leung, Nikolai K.N et al.
		<b>Art Unit</b>	2461
		<b>Examiner Name</b>	MATTIS, JASON E
<b>Sheet</b>	<b>8</b>	<b>of</b>	<b>12</b>
		<b>Attorney Docket No:</b> 010438B1	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> , Number* Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T 6
/JM/	132	JP2000137551A	05-16-2000	MITSUBISHI ELECTRIC CORP.		<input type="checkbox"/>
↓	133	RU2073913C1	02-20-1997	KONINKL PHILIPS ELECTRONICS NV [NL] et al.		<input type="checkbox"/>
	134	RU2187205C2	08-10-2002	SAMSUNG ELECTRONICS CO LTD [KR] et al.		<input type="checkbox"/>
	135	WO0008883A1	02-17-2000	ERICSSON INC [US] et al.		<input type="checkbox"/>
	136	WO0013356A1	03-09-2000	MOTOROLA INC [US] et al.		<input type="checkbox"/>
	137	WO0057601A1	09-28-2000	NOKIA NETWORKS OY [FI] et al.		<input type="checkbox"/>
	138	WO0062547A1	10-19-2000	OPENTV INC [US] et al.		<input type="checkbox"/>
	139	WO0076125A1	12-14-2000	NORTEL NETWORKS LTD [CA] et al.		<input type="checkbox"/>
	140	WO0078008A1	12-21-2000	SSH COMM SECURITY LTD [FI] et al.		<input type="checkbox"/>
	141	WO0247407A2	06-13-2002	QUALCOMM INC [US] et al.		<input type="checkbox"/>
	142	WO9825422A1	06-11-1998	NOKIA TELECOMMUNICATIONS OY [FI] et al.		<input type="checkbox"/>
/JM/	143	WO9959355A2	11-18-1999	NOKIA NETWORKS OY [FI] et al.		<input type="checkbox"/>
	144	WO03063418A1	07-31-2003	QUALCOMM INC [US]		<input type="checkbox"/>
						<input type="checkbox"/>
						<input type="checkbox"/>
						<input type="checkbox"/>

EXAMINER SIGNATURE /Jason Mattis/

DATE CONSIDERED 04/14/2010

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. † Applicant's unique citation designation number (optional). ‡ See Kinds of Documents of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. § Enter Office that issued the document, by the two-letter code (WIPO Standard ST 3). ¶ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. \*\*Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST 16 if possible. †† Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO		<i>Complete if Known</i>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		<b>Application Number</b>	10/033,141
		<b>Filing Date</b>	2001-10-24
		<b>First Named Inventor</b>	Leung, Nikolai K.N et al.
		<b>Art Unit</b>	2461
		<b>Examiner Name</b>	MATTIS, JASON E
<b>Sheet</b>	<b>9</b>	<b>of</b>	<b>12</b>
		<b>Attorney Docket No:</b> 010438B1	

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T2	
/JM/	145	"Functional Model of a Conditional Access System", EBU Review - Technical European Broadcasting Union, Bussels, BE, No.266; Dec 21, 1995; pgs 64-77; XP000559450.		
	146	"TIA/EIA/IS-95-B Mobile Station-Base Station Compatibility Standard For Dual-Mode Wideband Spread Spectrum Cellular System." (IS-95 STANDARD). <b>March 1999</b>		
	147	3G TS 25.213 V4.1.0 (2001-06) 3rd Generation Partnership Project; Technical Specification Group Radio Access Network; Spreading and Modulation (FDD)(Release 4).		
	148	3GPP TS 25.211 V4.2.0 (2001-09) 3rd Generation Partnership Project; Technical Specification Group Radio Access Network; Physical Channels and Mapping of Transport Channels Onto Physical Channels (FDD)(Release 4).		
	149	3GPP TS 25.212 V4.2.0 (2001-09) 3rd Generation Partnership Project; Technical Specification Group Radio Access Network; Multiplexing and Channel Coding (FDD)(Release 4).		
	150	3GPP TS 25.214 V4.2.0 (2001-09) 3rd Generation Partnership Project; Technical Specification Group Radio Access Network; Physical Layer Procedures (FDD)(Release 4).		
	151	3GPP2 C.S0002-0 Version 1.0 (1999-07) 3rd Generation Partnership Project 2 "3GPP2" Physical Layer Standard for cdma2000 Spread Spectrum Systems.		
	152	AL-TAWIL, "A New Authentication Protocol for Roaming Users in GSM", Proceedings for IEEE International Symposium on Computers and Communication, 6 July 1999, pp 93-99.		
	153	B.G. MARCHENT et al. "Intelligent Control of Mobile Multimedia Systems" Vehicular Technology Conference 1998. VTC 98, 48th IEEE Ottawa, Canada, May 18-21 1998; New York, USA, May 18, 1998, pages 2047-2051.		
	154	BACCELLI, F et al: "Self Organizing Hierarchical Multicast Trees And Their Optimization," INFOCOM 1999. IEEE, 1081-1089 (21 MARCH 1999).		
	155	BORMANN, et al., "Robust Header Compression (ROHC)," Internet Engineering Task Force IETF Draft, 1-145, Feb. 26, 2001.		
	156	BROWN: "The Electronic Post It Note Model for Mobile Computing Applications," Computing Lab, The University, Canterbury, Kent, The Institution of Electrical Engineers, IEEE, Savoy Place, London, WC2R 0BL, UK. <b>1995</b>		
	157	ESTRIN, et al., "The Protocol Independent Multicast-Sparse Mode (PIM-SM)," RFC 2362, June 1998.		
/JM/	158	ETSI: "Universal Mobile Telecommunications Systems (UMTS); Multimedia Broadcast/Multicast Service (MBMS); Stage 1, 3GPP TS 22.146 version 5.2.0 Release 5", <b>3/2002</b>		

EXAMINER SIGNATURE

/Jason Mattis/

DATE CONSIDERED 04/14/2010

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. \* Applicant's unique citation designation number (optional). \* See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. \* Enter Office that issued the document, by the two-letter code (WIPO Standard ST 3). \* For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. \* Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST 16 if possible. \* Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO		<i>Complete If Known</i>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		<b>Application Number</b>	10/033,141
		<b>Filing Date</b>	2001-10-24
		<b>First Named Inventor</b>	Leung, Nikolai K.N et al.
		<b>Art Unit</b>	2461
		<b>Examiner Name</b>	MATTIS, JASON E
<b>Sheet</b>	<b>10</b>	<b>of</b>	<b>12</b>
		<b>Attorney Docket No:</b> 010438B1	

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T2	
/JM/		ETSI TS 22.146 v5.2.0, pages 1-15, 03/2002.		
	159	GONG, L et al: "Trade-Offs In Routing Private Multicast Traffic," Global Telecommunications Conference, 1995. IEEE, 2124-2128 (13 NOV 1995).		
	160	KALLIOKULJU J.: "User Plane Architecture of 3rd Generation Mobile Telecommunication Network," IEEE International Conference on Networks, ICON, Proceedings on Networks (ICON'99), 28 September 1999 (1999-09-28) - 1 October 1999 (1999-10-01), pgs. 270-278, XP010354980.		
	161	LIN, et al: "A Multicast Routing Protocol for Multihop Wireless Networks," Dept. of Computer Science and Information Engineering, Chung Cheng University, Taiwan, GLOBAL TELECOMMUNICATIONS CONFERENCE, XP010373304. 1999		
	162	LOU et al., "Progressive Video Streaming Over 2G and 3G Wireless Systems," Proceedings Of The 11th IEEE International Symposium On Personal Indoor And Mobile Radio Communications, vol.2, September 18-21, 2000, London, pages 1550-1554.		
	163	MIYAZAKI: "A Stream-data Multicast Protocol Using IP Unicast Address" Technical Report of IEICE, IN2001-9, May 11, 2001.		
	164	MOY, "Multicast Extensions to OSPF," RFC 1584, March 1994.		
	165	PAUL K et al: "A Stability-Based Distributed Routing Mechanism To Support Unicast And Multicast Routing In AD HOC Wireless Network" Computer Communications, Elsevier Science Publishers BV, Amsterdam, NL, VOL. 24, NO. 18, 1 DEC 2001, Pages 1828-1845, XP0043.		
	166	TAKAHASHI: "Prospect of Push type Information Providing Service/Technology," Information Processing, Vol. 39, No. 11, November 15, 1998, p. 1124 - 1131.		
	167	TIA/EIA/IS-856 Interim Standard cdma2000 High Rate Packet Data Air Interface Specification (2000-11).		
	168	TIA/EIA/IS-95-A (Revision of TIA/EIA/IS-95) Mobile Station-Base Station Compatibility Standard for Dual-Mode Wideband Spread Spectrum Cellular System (1995-05).		
	169	TOH C-K et al: "Abam: On-Demand Associativity-Based Multicast Routing For AD HOC Mobile Networks," Vehicular Technology Conference, 2000. IEEE, 987-993 (2000).		
/JM/	170	WAITZMAN, et al., "The Distance Vector Multicast Routing Protocol (DVMRP)," RFC 1075, Nov. 1, 1998.		

EXAMINER SIGNATURE /Jason Mattis/

DATE CONSIDERED 04/14/2010

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. \* Applicant's unique citation designation number (optional). \* See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. \* Enter Office that issued the document, by the two-letter code (WIPO Standard ST 3). \* For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. \* Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST 16 if possible. \* Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO		<i>Complete if Known</i>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		<b>Application Number</b>	10/033,141
		<b>Filing Date</b>	2001-10-24
		<b>First Named Inventor</b>	Leung, Nikolai K.N et al.
		<b>Art Unit</b>	2461
		<b>Examiner Name</b>	MATTIS, JASON E
<b>Sheet</b>	11	of	12
		<b>Attorney Docket No:</b> 010438B1	

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T2
/JW/	171	YANG et al: "An Efficient Multicast Delivery Scheme To Support Mobile IP," Database And Expert Systems Applications, 1999. IEEE, 638-88 (1 SEPTEMBER 1999).	

EXAMINER SIGNATURE

/Jason Mattis/

DATE CONSIDERED

04/14/2010

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. \* Applicant's unique citation designation number (optional). \*  
 See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. \* Enter Office that issued the document, by the two-letter code (WIPO Standard ST 3). \*  
 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. \* Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST 16 if possible. \* Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND  
 TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.